

Applicants: Zhongyi Li, et al.  
U.S. Serial No.: Not Yet Known  
Filed: Herewith  
Page 5

Amendments to the Claims:

Please cancel claims 21-23, 25-36, 38, 39, 42, and 44-47 without disclaimer or prejudice to applicants' right to pursue the subject matters of these claims in the future.

Pursuant to 37 C.F.R. §1.121(c), this listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Original) Grain obtained from a rice plant, comprising starch, wherein the proportion of amylose in the starch of the grain is at least 40%.
2. (Original) The grain of claim 1, comprising two or more genetic variations, wherein one genetic variation is selected from the group consisting of
  - a) a mutation of an *SBEIIa* gene which inhibits *SBEIIa* expression and/or activity, and
  - b) an introduced nucleic acid which inhibits *SBEIIa* expression and/or activity, andand wherein a second genetic variation is selected from the group consisting of
  - c) a mutation of an *SBEIIb* gene which inhibits *SBEIIb* expression and/or activity, and
  - d) an introduced nucleic acid which inhibits *SBEIIb* expression and/or activity.
3. (Currently Amended) The grain of claim 1 ~~or 2~~, comprising reduced levels of *SBEIIa* and *SBEIIb* proteins and/or activities.
4. (Currently Amended) The grain of ~~any one of~~ claims 1 to 3, wherein the proportion of amylose in the starch of the grain is at least 50%.

5. (Currently Amended) The grain of ~~any one of~~ claims 1 to 4 which comprises a transgene.
6. (Original) The grain of claim 5, wherein the transgene encodes an antisense, co-suppression, ribozyme or duplex RNA molecule.
7. (Currently Amended) The grain of ~~any one of~~ claims 1 to 4 which is non-transgenic.
8. (Currently Amended) The grain of ~~any one of~~ claims 2 to 7, further comprising a reduced level of SBEI protein and/or activity.
9. (Currently Amended) The grain of ~~any one of~~ claims 1 to 8, comprising an altered level of a protein and/or enzyme activity selected from the group consisting of ADP glucose pyrophosphorylase, GBSS, SSI, SSII, SSIII, a debranching enzyme of an isoamylase type and a debranching enzyme of a pullulanase type.
10. (Original) The grain of claim 9, comprising an altered level of GBSS protein and/or enzyme activity.
11. (Currently Amended) The grain of ~~any one of~~ claims 1 to 10 which is non-shrunken.
12. (Currently Amended) The grain of ~~any one of~~ claims 1 to 11 which is brown rice having an average weight of at least about 25 mg.
13. (Currently Amended) The grain of ~~any one of~~ claims 1 to 12 wherein at least 50% of starch granules within the grain appear non-birefringent when observed under polarized light.
14. (Currently Amended) The grain of ~~any one of~~ claims 1 to 13 which has a starch content that is at least 90% of the starch content of equivalent, but unaltered, grain.

Applicants: Zhongyi Li, et al.  
U.S. Serial No.: Not Yet Known  
Filed: Herewith  
Page 7

15. (Currently Amended) The grain of ~~any one of~~ claims 2 to 14, comprising a null mutation of the *SBEIIa* or *SBEIIb* gene.
16. (Currently Amended) The grain of ~~any one of~~ claims 1 to 15 which is of an Indica variety or which comprises a *Wx<sup>a</sup>* allele.
17. (Currently Amended) A rice plant capable of producing the grain according to ~~any one of~~ claims 1 to 16.
18. (Currently Amended) Starch granules extracted from the grain according to ~~any one of~~ claims 1 to 16.
19. (Currently Amended) Starch extracted from the grain according to ~~any one of~~ claims 1 to 16.
20. (Currently Amended) A product comprising flour or starch produced from the grain according to ~~any one of~~ claims 1 to 16.
- 21-23. (Canceled)
24. (Original) A method of producing a rice plant capable of producing grain, the grain having starch comprising at least 40% amylose, comprising the steps of
  - a) introducing a genetic variation into a parent rice plant or seed; and
  - b) identifying a progeny plant of the parent rice plant or seed, wherein the starch of grain of the progeny plant comprises at least 40% amylose.
- 25-36. (Canceled)
37. (Original) A method of producing a rice plant having a reduced level of both *SBEIIa* and *SBEIIb* proteins and/or enzyme activities in the endosperm which comprises:
  - a) mutagenising seed having a reduced level of *SBEIIa* protein and/or enzyme activity; or

- b) mutagenising seed having a reduced level of SBEIIb protein and/or enzyme activity; or
- c) crossing a plant having a reduced level of SBEIIa protein and/or enzyme activity with a plant having a reduced level of SBEIIb protein and/or enzyme activity; and
- d) identifying a rice plant having reduced activity of both SBEIIa and SBEIIb proteins and/or enzyme activities in the endosperm.

38. (Canceled)

39. (Canceled)

40. (Currently Amended) A method of producing altered rice starch comprising the step of extracting starch from the grain according to ~~any one of~~ claims 1 to 16.

41. (Original) Use of two or more exogenous nucleic acid molecules, at least one of which encodes an inhibitor of rice SBEIIa expression and/or activity and at least another of which encodes an inhibitor of rice SBEIIb expression and/or activity, to produce a rice plant which has reduced levels of SBEIIa and SBEIIb proteins and/or activities.

42. (Canceled)

43. (Original) An isolated nucleic acid molecule which encodes an inhibitor of rice SBEIIa and an inhibitor of rice SBEIIb, which may be the same or different.

44-47. (Canceled)